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#4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,182A

DATE: 05/07/2002

TIME: 14:50:40

Input Set : A:\EP.txt

Output Set: N:\CRF3\05072002\I888182A.raw

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3 <110> APPLICANT: Vertex Pharmaceuticals Incorporated
5 <120> TITLE OF INVENTION: ERK-5 DEFICIENT ANIMALS AND METHODS OF INHIBITING
ANGIOGENESIS THROUGH
6 THE INHIBITION OF ERK-5
8 <130> FILE REFERENCE: VPI/00-115
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/888,182A
11 <141> CURRENT FILING DATE: 2001-06-22
13 <150> PRIOR APPLICATION NUMBER: US60/214,044
14 <151> PRIOR FILING DATE: 2000-06-23
16 <160> NUMBER OF SEQ ID NOS: 6
18 <170> SOFTWARE: PatentIn version 3.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 26
22 <212> TYPE: DNA
23 <213> ORGANISM: Mus musculus
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26 cagccattcg atgtgggccc acgcta 26
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30 <211> LENGTH: 25
31 <212> TYPE: DNA
32 <213> ORGANISM: Mus musculus
34 <400> SEQUENCE: 2
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39 <211> LENGTH: 802
40 <212> TYPE: DNA
41 <213> ORGANISM: Mus musculus
43 <220> FEATURE:
44 <221> NAME/KEY: misc_difference
45 <222> LOCATION: (1)..(802)
46 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid
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52 ggagacacag tgggatcag cttagaagcc caggttcagt aatactgaag ttctggcagg 120
54 gcggttgaac ccagagtgat gcgggctgtg agtccaggac attggtaggg acagttctta 180
56 tctctcaaga gggcaagggc tgggatgtc gatcactggg aggctgatga gcactcttga 240
58 ggttttaggt tgactctcct gtacaaaagg ggaaaagaat caagaggatt tacctcttta 300
60 tggatcatgcc acctttggtt atatcataag ttcaaggcta gtctagacct tgttccaaaa 360
W--> 62 gacaaaacan aaaaccnaaa cagcaatnta nganaaggga gagagggcnc agacnngnccg 420
64 ggacagatcc aaattgtaag acaacggaca caatacattg tagtgtcaca cagcagtgtc 480
66 ctcatggcag acaactaatt attcacagaa tacctcctta aaaatagagt cttcaacata 540
68 gctttttcag tagtgtgttg caaactgtag agtttgctct aaaattaacc atactggcca 600
W--> 70 atcttggtag atttgaatat ttctataaaa aaaatttttt ttgacagaaa ttangtccat 660
W--> 72 ggagaaagtg atttgtcaga aagcttgtaa aaaagtttgg ggctnggaaa aaaccggatt 720

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74 cgggtgattaa gatcaactcga tcttttaaaa gggacttggc ttttaantncc ataatggmct 780
 W--> 76 ttcaccgggg ggcntaaact tt 802
 79 <210> SEQ ID NO: 4
 80 <211> LENGTH: 794
 81 <212> TYPE: DNA
 82 <213> ORGANISM: Mus musculus
 84 <220> FEATURE:
 85 <221> NAME/KEY: misc_difference
 86 <222> LOCATION: (1)..(794)
 87 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid
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 W--> 95 naccagggc acccaagtag tacacatacg ttcaggaaan catacacata cgtttaagaa 180
 W--> 97 aactttataa aagttgtggc cagncggttg tggcgcatgc ctttaatccc agcactgggg 240
 99 aggcagagggc aggcagatct cttgagtttt gggtttgagg ccaacctggt ctacaagagc 300
 101 aagcaagttc caggccagat aaggctacac agacatcttg tcttgaaaaa aagaaagaaa 360
 W--> 103 gaatgaaagt tgtagaaaac ctaaaaccgg gtgnnnaant ccnnccttcc catgntgtta 420
 105 gtcctttggg gtttcaactgt aaggccataa cctcaggaat tgggagtgcc aggggacgga 480
 107 gtgccagggg gggcttctcc ctgtgatgtg aggaggctag ctcacccgtt tcttcccatt 540
 109 ttcagctatg tggtagtga cctcatggag agcgacctac accagatcat tcactcttca 600
 111 cagccgctca ccctggaaca tgtgagatac ttctgttacc agctgcttcg gggcctcaaa 660
 113 tacatgcact ctgctcaggt catccaccgt gatcttaaac cctctaacct tctggtcaat 720
 115 gagaactgtg agctcaagat cgggtgacttt ggaatggccc gtggcctctg tacttcccc 780
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 121 <211> LENGTH: 632
 122 <212> TYPE: DNA
 123 <213> ORGANISM: Mus musculus
 125 <220> FEATURE:
 126 <221> NAME/KEY: misc_difference
 127 <222> LOCATION: (1)..(632)
 128 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid
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 134 cacagttcca cttgagccca gggatggcat ctcaacatct ggacacacag gctcactagc 120
 W--> 136 cacaggctgc ananaagntg gaacgnattg ttgncgaatg cctccngtc gtgcatgaaa 180
 138 gtcttcattc tcagccacaa tggcctcctt aatgcgctcc ctggtaaggg cttcacgggt 240
 140 caaaagcaaa gtcaaaagggt gggcgcaat caggctcatc atcagggtca tggtagttag 300
 W--> 142 ccagaagggg tgccaaggca gcagcagtna gattcgggcn ctgggttcaa ntgcacccat 360
 144 gcgtcccagc agggagaggg cctggcggtc agcacctggg tatactgtct cccaaggcac 420
 146 aggttgccctt ggtggcaggc tctggatata ggctcgacc ctttcagccc ccacagcctg 480
 148 aatcacagct ggtgacggag ttcccaacac catcatgatc agctgtaact ggtgcacgta 540
 150 gtttttgccct gggaagagct ggcgcggagc cagcatctca ccaaagatgc agcccacaga 600
 152 ccagaggtcg attgectgcg gtatactcgt gc 632
 155 <210> SEQ ID NO: 6
 156 <211> LENGTH: 617
 157 <212> TYPE: DNA
 158 <213> ORGANISM: Mus musculus

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160 <220> FEATURE:

161 <221> NAME/KEY: misc_difference

162 <222> LOCATION: (1)..(617)

163 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid

166 <400> SEQUENCE: 6

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W--> 171 aaaaaagttt tgttctaaga ccanngaatn ggcagaatga agtggngaag gattagggag      180
W--> 173 antctggaat gacctnanta tggtagtag gaagggaaga aggatcagtt aatncagtca      240
W--> 175 caancnnntg ctaactaacg ngcctcctnt ttatgtaagc nattagcanc ngtttcnnga      300
W--> 177 ggcagttgga aattaaaatn ttgatatatg ttacacacag ggcctgcac cacagtaggg      360
W--> 179 acttnatgnn ntntgggntc cagaagagca gtgctgaagg gacctgcagc taacttgaag      420
      181 gtactctctg gtatatgcc ttttctgct cccagggcca gcaggaggcc atcaagaaga      480
      183 tacctaagtc ttttgatgtg gtgaccaatg ccaaacggac cctcaggag ctgaagatcc      540
      185 tcaaacactt caaacacgac aatatcatcg ccatcaagga catcctgaag cctactgtgc      600
      187 cctatggaga attcttc                                     617

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/888,182A

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Input Set : A:\EP.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 4,370,377,388,391,394,409,415,417,654,705,766,768,778,794
Seq#:4; N Pos. 5,20,24,37,48,51,54,57,58,65,66,82,98,110,111,121,160,204
Seq#:4; N Pos. 394,395,396,399,403,405,415
Seq#:5; N Pos. 12,14,17,23,42,51,132,134,138,146,154,167,329,340,351
Seq#:6; N Pos. 18,22,23,29,36,37,43,46,50,51,52,56,57,70,74,101,105,110,111
Seq#:6; N Pos. 112,117,118,120,144,145,150,166,170,182,196,198,234,244,246
Seq#:6; N Pos. 247,248,261,269,281,289,291,297,298,320,345,365,369,370,371
Seq#:6; N Pos. 373,378